

**CLAIMS**

1. System for networking aeronautical equipment on board an aircraft characterized in that it comprises, for each equipment item, an object-oriented interface (1, 2; 3, 4) with object aspect means (1, 3), enabling it to recognize the onboard equipment to which it is assigned, as an object, in the object-oriented programming sense, capable of communicating with other objects in the object-oriented programming sense according to an object-oriented client/server model and with observer means (2, 4) recording the events resulting from operation of the equipment.
2. System according to Claim 1, characterized in that an object-oriented interface (1, 2; 3, 4) comprises an object aspect (1, 3) provided with subscription-based communication services.
3. System according to Claim 1, characterized in that the object-oriented interfaces (1, 2; 3, 4; 52, 53) comply with a multi-vendor distributed applications protocol.
4. System according to Claim 1, characterized in that the object-oriented interfaces (1, 2; 3, 4; 52, 53) comply with the CORBA standard devised by the "Object Management Group".
5. System according to Claim 1, characterized in that the object-oriented interfaces (1, 2; 3, 4; 52, 53) comply with the Java Remote Method Invocation protocol devised by Sun Microsystems, Java being a registered trademark of the latter company.
6. System according to Claim 1, characterized in that the object-oriented interfaces (1, 2; 3, 4; 52,

53) comply with the Simple Object Access Protocol devised by the "World Wide Web Consortium".

- 5 7. System according to Claim 1, characterized in that  
the object-oriented interfaces (1, 2; 3, 4)  
intercommunicate via an object in the object-  
oriented programming sense, called an adapter  
object (9, 9'), provided with means of adapting  
10 the format of the messages and events generated by  
the object-oriented interfaces so that they can be  
understood by the recipient object-oriented  
interface.
- 15 8. System according to Claim 7, characterized in that  
it includes a configuration object (15, 15')  
recognizing all the objects, in the object-  
oriented programming sense, of the network and all  
the services, and handling the creation of the  
adapter objects (9, 9').
- 20 9. System according to Claim 7, characterized in that  
an adapter object (9, 9') complies with the CORBA  
standard devised by the "Object Management Group".
- 25 10. System according to Claim 7, characterized in that  
an adapter object (9, 9') complies with the Java  
Remote Method Invocation protocol devised by Sun  
Microsystems, Java being a registered trademark of  
the latter company.
- 30 11. System according to Claim 7, characterized in that  
an adapter object (9, 9') complies with the Simple  
Object Access Protocol devised by the "World Wide  
Web Consortium".
- 35 12. System according to Claim 1, used in an avionics  
system comprising a dedicated aeronautical bus  
(51), characterized in that the object-oriented

interfaces (52, 53) are connected to their assigned equipment items via the dedicated aeronautical bus (51).

5 13. System according to Claim 1, used in an avionics system comprising a dedicated aeronautical bus (51), characterized in that the object-oriented interfaces (1, 2; 52, 53) intercommunicate via the dedicated aeronautical bus (51).

10

14. System according to Claim 1, characterized in that one of the aeronautical equipment items is an air traffic collision avoidance system TCAS and another aeronautical equipment item is a flight

15

computer FMS.